

Title <b>Planning of manufacturing processes I</b>	Code <b>10102512510102202260</b>
Field <b>Mechanical Engineering</b>	Year / Semester <b>3 / 5</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>1</b> Classes: -    Laboratory: -    Projects / seminars: <b>1</b>	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

Prof. dr hab. inż. Maciej KUPCZYK  
Instytut Technologii Mechanicznej  
ul. Piotrowo 3, 60-965 Poznań  
tel. +48 61 6652203  
e-mail: maciej.kupczyk@put.poznan.pl

**Faculty:**

Faculty of Mechanical Engineering and Management  
ul. Piotrowo 3  
60-965 Poznań  
tel. (061) 665-2361, fax. (061) 665-2363  
e-mail: office\_dmef@put.poznan.pl

**Status of the course in the study program:**

Obligatory course of the stationary study program for the branch of Mechanics and Mechanical Engineering, Department of Mechanical Engineering and Management ? first degree

**Assumptions and objectives of the course:**

The student should obtain basic knowledge of manufacturing process planning of machining

**Contents of the course (course description):**

Mechanical engineering and its range (definitions of basic notions ? technology, mechanical engineering, manufacturing process etc.). Manufacturing process ? essence and structure. Planning of machining operations (straight and facing turning, boring, drilling, re boring, reaming, slotting, pull broaching, slot milling, threading and tapping, plunge and continuous grinding (centreless and center-type). Input information for process planning. Documentation of manufacturing. Definition of standard worktime. Type of semifinished products. Production program and its influence on manufacturing process planning. Classification of machine parts. Manufacturing process of typical machine parts (shaft, sleeve, disc etc.). Verification of productibility of axially-symmetrical parts.  
Project: technology planning of a shaft

**Introductory courses and the required pre-knowledge:**

Basic knowledge from the range of materials manufacturing, engineering drawing, metrology and manufacturing

**Courses form and teaching methods:**

Lectures supported by transparencies, video films and slides

**Form and terms of complete the course - requirements and assessment methods:**

Written tests and oral examination. Estimation of project of technology

**Basic Bibliography:**

**Additional Bibliography:**

